

FAA Certified No. XQ2R302L

PACIFIC MAGNETIC & PENETRANT CO., INC

MT · PT

CHEMICAL PROCESSING

MAGNETIC AND PENETRANT INSPECTION PASSIVATION • GLASSBEAD • CHEMICAL ETCH

May 26, 2006

Kim Muratore, Case Developer (SFD-7-B) U.S. EPA, Region 9 75 Hawthorne Street San Francisco, CA. 94105

Re: General Notice Letter/104(e) for the San Fernando Valley/North Hollywood Superfund Site, North Hollywood, CA.

Dear Kim Muratore:

I updated my May 17, 2006 letter to include the second half of my responses (numbers 21-39) below along with the first half of my responses. This submission of the response in two halves was agreed upon with Mike Massey earlier this month. Please accept my apologies if this letter is somewhat redundant with my first correspondence.

I want to amend my response to question #19 as it pertains to part B regarding sumps. I accidentally omitted that PM&P has two in ground sumps. These sumps are 2' X 3' sq., epoxy sealed concrete with polypropylene tanks installed in ground. One sump is located in the bermed tank area where it is plumbed to the three-stage clarifier. This sump handles any non-hazardous water runoff that occurs in air-drying customers parts. The second sump is in the bermed area where the three-stage clarifier is located and used to control non-hazardous water flow immediately before going into the clarifier. Discovery of a map of the operations includes this information.

Your letter dated April 11, 2006 was addressed to Pacific Magnetic & Penetrant Co., Inc. ("PM&P"). I must object to what appears to be the letter's mischaracterization of the term "Facility." I do not agree that either location is a "Facility." To the extent that any location was once a "Facility," – it would not be PM&P's exclusive location at 6837 Farmdale Ave. For purposes of this response, I feel that I must separate 6829 Farmdale Ave. from 6837 Farmdale Ave. and am answering each question separately for the two locations.

Pacific Steel Treating Co., Inc. ("PST") operated exclusively at 6829 Farmdale Ave. and was a Heat Treating Company.

PM&P operates a Visual Inspection Laboratory Service Business at 6837 Farmdale Ave. PM&P operated exclusively at 6837 Farmdale Ave. In an effort to be complete about its operations, responses to questions herein for PM&P at 6837 Farmdale Ave. are described separately.

In January 2003 Pacwest Properties L.L.C. ("Pacwest") purchased 6829 Farmdale Ave. and 6837 Farmdale Ave.

In January 2003 PM&P started renting from Pacwest the property at 6829 Farmdale Ave. for warehouse storage of company records/paper supplies. In March 2006 PM&P started Visual Inspection Laboratory Services at 6829 Farmdale Ave.

Response to Questions

- Erik Bruun-Andersen
 6837 Farmdale Ave.
 North Hollywood, CA. 91605
 818-765-7266, President, 1992 present
- 2. Pacific Steel Treating Co., Inc. ("PST") is responsible for environmental matters at 6829 Farmdale. PST operated exclusively at 6829 Farmdale Ave and did not operate at 6837 Farmdale Ave.

Pacific Steel Treating Co., Inc. 1177 Dulzura Drive Santa Barbara, CA. 93108

PM&P operates at 6837 Farmdale Ave. The individual responsible for environmental matters is:

Erik Bruun-Andersen, President 6837 Farmdale Ave. North Hollywood, CA. 91605, 818-765-7266.

- 3. Active
- 4. Incorporated 1992, South Dakota
- 5. Corporation. Its former business structure was a division of PST from 1978-1992.
- 6. PM&P did not operate at 6829 Farmdale Ave. PM&P operates at 6837 Farmdale Ave, North Hollywood, CA. 91605, as PM&P Co. from 1978-1992 and as PM&P Inc. from 1992 present.
- 7. Articles of Incorporation for PM&P provided.
- 8. PM&P Co., 1978-1992, Fictitious business filing provided. Operated exclusively at 6837 Farmdale Ave.
- 9. Pacific Magnetic & Penetrant Co., was sold to Niels Bruun-Andersen, Sept. 1992.
- 10. PM&P investment in Pacwest Properties LLC in Feb. 2001.

11. PM&P started warehousing records/paper supplies at 6829 Farmdale Ave. in Jan. 2003. Before that Pacific Steel Treating Co., Inc. operated exclusively at 6829 Farmdale Ave.

Pacific Steel Treating Co., Inc. 1177 Dulzura Dr. Santa Barbara, CA. 93108.

PM&P 6837 Farmdale Ave. North Hollywood, CA. 91605

Owners and Former Owners:

Niels Bruun-Andersen, Former Officer Oct. 1992-April 1997 (Deceased) Niels Bruun-Andersen Trust April 1997- Dec.1998 Erik Bruun-Andersen, President/FX-6 Personal Privacy

- 12. PM&P never owned 6829 Farmdale Ave. PM&P never owned 6837 Farmdale Ave.
- 13. See Question 12.
- 14. PM&P warehoused records/paper supplies at 6829 Farmdale Ave., starting in Jan. 2003, from Pacwest Properties LLC.

PM&P started Visual Inspection Laboratory Services at 6829 Farmdale Ave. in March 2006.

PM&P has operated at 6837 Farmdale Ave. from 1978 to 1992 as a division of Pacific Steel Treating Co., Inc. and from 1992 to present as a corporation.

15. PM&P never leased or operated at 6829 Farmdale Ave. before Jan. 2003.

In Jan. 2003 when Pacwest purchased 6829 Farmdale Ave. PM&P started leasing from Pacwest. Lease Provided.

In Jan. 2003 when Pacwest purchased 6837 Farmdale Ave. PM&P started leasing from Pacwest. Lease Provided.

Owner:

Pacwest Properties L.L.C. 6837 Farmdale Ave., North Hollywood, CA. 91605, 818-765-7266

16. a. Pacific Steel Treating Co., Inc. owned 6829 Farmdale Ave. until January 2003. and sold to Pacwest Properties LLC in 2003. Previous to that, Pacific Steel Treating Co., Inc. owned/operated at 6829 Farmdale Ave.

- b. Heat Treating
- c. Pacific Steel Treating owned and controlled access to 6829 Farmdale Ave. until the sale in Jan 2003 to Pacwest Properties LLC. PM&P never owned or controlled access to the property at 6829 Farmdale Ave.
- d. Contact Pacific Steel Treating Co., Inc.

As for 6837 Farmdale Ave.

- a. PM&P Co., operated at 6837 Farmdale Ave. from 1978-1992 PM&P Co., Inc., operated at 6837 Farmdale Ave. 1992-present.
- b. Unknown before 1978.
- c. Unknown
- d. There was never a hazardous substance, pollutant, or contaminant release at 6837 Farmdale Ave. from 1978-present. PM&P Co., Inc was the only business to operate at 6837 Farmdale Ave. from 1978-present.
- 17. Historically, PM&P did not operate at 6829 Farmdale Ave. See Pacific Steel Treating Co., Inc. As of Jan. 2003 to date PM&P has occupied 6829 Farmdale Ave. PM&P leased warehouse space for records/paper supplies. Starting March 2006, PM&P leased the property at 6829 Farmdale Ave. for Visual Inspection Laboratory Services.

For 6837 Farmdale Ave:

PM&P Co., Inc. Erik Bruun-Andersen/President 6837 Farmdale Ave. North Hollywood, CA. 91605, 818-765-7266 1992-present

18. For 6829 Farmdale Ave, see Pacific Steel Treating Co., Inc. for all company issues/operations before Jan. 2003.

PM&P started in Jan. 2003 leasing 6829 Farmdale for warehouse space from Pacwest. PM&P started in March 2006 leasing 6829 Farmdale from Pacwest for Visual Inspection Laboratory Services. PM&P did not lease or occupy 6829 Farmdale Ave before those dates.

The property at 6837 Farmdale Ave:

PM&P operations at 6837 Farmdale Ave. are housed in a 4515 sq ft. building and employ 18 people. Services offered by PM&P include Visual Inspection Laboratory Service. No significant changes have occurred in the building size, number of employees or services provided since the Company's inception.

- 19. For 6829 Farmdale Ave:
 - a. Map provided for PM&P's operations starting in March 2006.
 - b. PM&P has two sumps in its operations (2'X3') that only non-hazardous water enters. One is used for non-hazardous water runoff from air drying customer parts. And the other is used to control non-hazardous water flow immediately before the three-stage clarifier. Both sumps are epoxy sealed concrete with polypropylene liners installed in ground.
 - c. No groundwater or dry wells exist.
 - d. Before March 2006, Unknown. Post March 2006 map provided.
 - e. None known.
 - f. Before March 2006, Unknown.
 Post March 2006. No dumps, leach fields or burn pits exist.

For 6837 Farmdale Ave.

- a. Map provided.
- b. PM&P has one sump in its operations (2'X3') that only non-hazardous water enters. It is used to control non-hazardous water flow immediately before the three-stage clarifier. Sump is epoxy sealed concrete with polypropylene liner installed in ground.
- c. No groundwater or dry wells exist.
- d. Normal stormwater drainage system and sanitary sewer system. No septic tanks or subsurface disposal fields.
- e. None
- f. No dumps leach fields or burn pits exist.
- 20. For 6829 Farmdale Ave. none.

For 6837 Farmdale Ave. chemical inventory form provided.

21. For the newly started PM&P operations at 6829 Farmdale, chemicals and hazardous substances are provided including chemical composition and quantities. MSDSs are also provided.

For 6837 Farmdale, chemicals and hazardous substances are provided including chemical composition and quantities. MSDSs are also provided.

22. Except as described below for chromium, PM&P does not and has not used, transported or received any of the listed chemicals in its operations at 6837 Farmdale Ave. Except as described below for chromium, PM&P does not and has not used, transported or received any of the listed chemicals in its operations at 6829 Farmdale Ave.

A March 26, 1998 letter from the U.S. EPA and Los Angeles Regional Water Quality Control Board to PM&P at 6837 Farmdale Ave (typo incorrectly says 6829 Farmdale Ave) states that the property (6837 Farmdale Ave) was inspected by Regional Staff and was determined "No Further Action" and that PM&P will

not be asked by the U.S. EPA or the Regional Board to participate in regional groundwater cleanup projects planned for the San Fernando Valley. The letter also states PM&P was no longer part of the U.S. EPA Superfund process, and the Regional Board and U.S. EPA plan no further action concerning PM&P. Signed by Keith A. Takata, Director Superfund Division, U.S. EPA, Region 9 and Dennis A. Dickerson, Executive Officer, CA. Regional Water Quality Control Board. Letter Included.

Chromium. PM&P uses a small amount of Sodium Bichromate and Chromic Acid in its operations. PM&P operations regarding chromium are very defined and limited in its use. PM&P has two 75-gallon polypropylene tanks in a batch process (no plumbing) that are contained in an epoxy sealed concrete berm with polypropylene protective flooring. PM&P operations require very limited use of chromium. The concentration of chromium in these polypropylene tanks is 2-3 % by volume. Because of the low usage of these solutions they are in operation for 6 months. Once the solution is spent we batch treat (unplumbed) in the polypropylene tank by adding sodium metabisulfite and the used chromium is reduced from hexavalent to trivalent chrome. At that point we move the tank to the filter press where all the filter cake is created. Sampled excess non-hazardous water is pumped to the above clarifier for permitted discharge to the sewer system. All operations and treatment are handled in a controlled environment with trained individuals according to OSHA requirements. PM&P is very conscientious and takes a very serious hands-on approach to handling chemicals.

A November 5, 1997 letter from Los Angeles Regional Water Control Board to PM&P at 6837 Farmdale Ave. states the during the Board Staff inspection of the property the company was, "observed to be clean and well maintained and no evidence of spillage was noted." "Based on our inspections and information submitted, we have no further requirements with respect to the Well Investigation Program." Signed by Eric Nupen, Senior Engineering Geologist. Letter Included.

- a. 1. Sodium Bichromate, 30 lbs used per year, MSDS provided.
 - 2. Chromic Acid, 14 lbs used per year. MSDS provided.
- b. Including both storage areas and operations all Sodium bichromate and chromic acid are kept in polypropylene tanks in epoxy sealed concrete berms. Roofing covers all storage areas and operations.
- c. All used chromium is reduced from hexavalent to trivalent by batch process in polypropylene tanks using sodium metabisulfite, filtered pressed in a bermed and epoxy sealed concrete berm, then manifested and transported by a licensed hauler to a permitted off-site recycling facility.
- d. Chromic Acid purchased at 30 lbs. every two years. Sodium bichromate purchased at 30 lbs annually.
- e. Sodium Bichromate, mfg. by Occidental Chemical Corporation, Dallas TX. 75380. Chromic Acid, mfg. by Atotech, Rock Hill, SC. 29731
- 23. No soil contamination or groundwater sampling at the property of 6837 Farmdale

- Ave. See Pacific Steel Treating Co., Inc. for 6829 Farmdale Ave.
- 24. No groundwater wells located at the property of 6837 Farmdale Ave. As of March 2006 PM&P started leasing the property at 6829 Farmdale Ave. and observed no groundwater wells on the property.
- 25. Insurance policies held by PM&P provided. PM&P is submitting the current insurance policy, which covers 6837 Farmdale Ave and the newly started operations at 6829 Farmdale Ave. our investigation into prior insurance policies continues and I will supplement this response upon their discovery.
- 26. For 6837 Farmdale Ave., PM&P provides the City of Los Angeles wastewater discharge permit. At 6829 Farmdale Ave., PM&P began discharge in March 2006 pursuant to the City of Los Angeles wastewater discharge permit provided.
- 27. For 6837 Farmdale Ave., see Response to #26 for permit. Copies of discharged wastewater analysis provided. For 6829 Farmdale Ave., see Response to #26 for permit. Copies of discharged wastewater analysis provided.
- 28. For 6837 Farmdale Ave. and starting in March 2006 at 6829 Farmdale Ave. PM&P generates waste chromium, Mag oil and acetone.
 - The chromium (as trivalent chromium) is stored, treated, transported and recycled as described in Response #22.
 - Spent Mag oil and acetone are stored in polypropylene tanks in sealed concrete berms until lawful transport to a permitted off-site recycling facility. Mag oil and acetone are not treated or discharged to the sewer.
- 29. All chromium waste is reduced from hexavalent to trivalent using sodium metabisulfite as part of a batch process in a polypropylene tank. All treatment including filter press is in a epoxy sealed concrete bermed area. No chromium is allowed into the sewer. Filter cake is then manifested offsite for recycling.
- 30. PM&P uses a batch process in above ground polypropylene tanks. PM&P does not have any waste stream in their sumps.
- 31. For 6837 Farmdale Ave. and starting in March 2006 at 6829 Farmdale Ave. PM&P accumulated the following wastes before off-site disposal/recycling: chromium filter cake, Mag oil and acetone. All accumulation occurred in polypropylene tanks in epoxy sealed concrete berms.
- 32. No leaks, spills or other releases into the environment of any hazardous substances or pollutants or contaminants have occurred at 6837 Farmdale Ave. Since PMP began conducting business in March 2006 at 6829 Farmdale Ave., no leaks, spills or other releases have occurred.

- 33. With the exception of the correspondence previously identified in Response # 22, PM&P has had no correspondence between any person, business or agency regarding any releases of any kind at 6837 Farmdale Ave. PM&P has had no correspondence between any person, business or agency regarding any releases of any kind at 6829 Farmdale Ave.
- 34. PM&P is unable to respond for Pacific Steel Treating Co., Inc., which is a separate corporation. PM&P is separately owned and operated. Until March 2006 PM&P never operated under any business entity at 6829 Farmdale Ave. PM&P ceased to be associated with Pacific Steel Treating Co., Inc. in 1992. PM&P began leasing 6829 Farmdale Ave. in January 2003 for warehousing and in March 2006 for its inspection services.

Except as noted in this response, all of PM&P's operations from 1972-2006 have been exclusively at 6837 Farmdale Ave. and are limited to visual inspection laboratory services. As PM&P understands, Pacific Steel Treating Co., Inc. conducted heat treating activities exclusively at 6829 Farmdale Ave. According to one web site, "heat treatment" is defined as: "A combination of heating and cooling operations applied to a metal or alloy in the solid state to obtain desired conditions or properties. Heating for the sole purpose of hot working is excluded from the meaning of this definition." See http://www.wisoven.com/heatreat.htm#heattreatment

PM&P does not offer products. The specific services offered by PM&P include: Non-destructive visual testing of customers parts according to customer specification. A visual inspection laboratory applies certain fluorescent dyes and electrical current to parts and then under black light conditions checks for cracks, laps, seams or imperfections inherent in the part. The passivation of parts is to dip in acid tanks to remove any free iron introduced into the part.

PM&P cannot respond as to the specific kinds of products or services offered by Pacific Steel Treating Co., Inc., other than heat-treating. The specific client base of PM&P is commercial businesses that require visual testing services performed by trained technicians usually at the end of all operations performed to give final approval for the parts integrity. A final certification stating that the part has under gone this testing is required. We cannot describe the specific client base for Pacific Steel Treating Co., Inc., other than persons in need of heat-treating.

In January 2003 Pacwest Properties L.L.C. purchased 6829 Farmdale Ave. and 6837 Farmdale Ave. PM&P used 6829 Farmdale Ave. for warehouse operations beginning in January 2003 and for an inspection laboratory in March 2006.

- 35. (1) Pacwest Properties LLC purchased 6829 Farmdale Ave. from Pacific Steel Treating Co., Inc. in February 2003. That is the only business relationship between Pacwest and Pacific Steel Treating Co., Inc.
 - (2) PM&P is the only member of Pacwest Properties L.L.C. since the inception of Pacwest. in February 2001.
- 36. There is no chromium contamination in any form at the property of 6837 Farmdale Ave. PM&P has no such records of "chromium contamination in sludge from various clarifiers and sumps." PM&P uses small amounts of Sodium Dichromate and Chromic Acid in its passivation operations. Please refer to earlier question #22 for handling and usage of chromium. Monthly used volume includes approximately 2-3 lbs of powered chromium per month. Which in turns generates 25 gallons of 2-3% chromium containing liquid per month.
- 37. The three-stage clarifier is above ground. Clarifier permit from City of Los Angeles provided.

All processes are in above ground tanks in spill-contained epoxy sealed concrete berms and polypropylene protective flooring. Spent acids are neutralized in batch tanks before entering three-stage clarifier in which all water is according to our city permit before entering the sewer. PM&P chromium chemical whether new, used or treated never enters the three-stage clarifier or sewer system. Chromium, mag oil or acetone never enters the three-stage clarifier or sewer system. All chromium, mag oil and acetone is manifested off site for recycling. Manifests included.

- 38. PM&P has no documentation or information. PM&P is unrelated to Pacific Steel Treating Co., Inc. Question pertains to Pacific Steel Treating Co., Inc.
- 39. PM&P has no documentation or information. PM&P is unrelated to Pacific Steel Treating Co., Inc. Question pertains to Pacific Steel Treating Co., Inc.

Erik Andersen, President

Pacific Magnetic & Penetrant Co., Inc.

Question 19 6837 Farmore

SITE PLAN

Process number

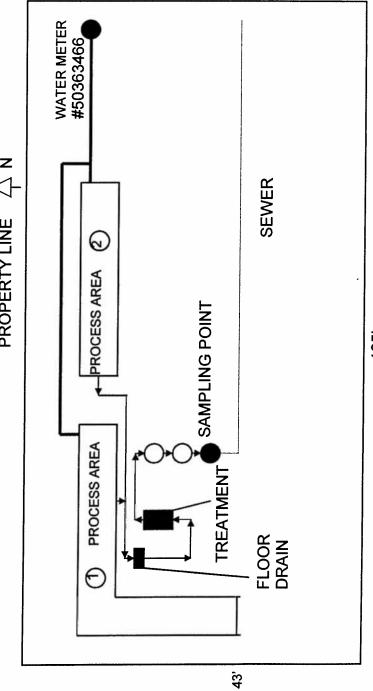
Water Meter

Sample Point

Floor Pit

Pretreatment System

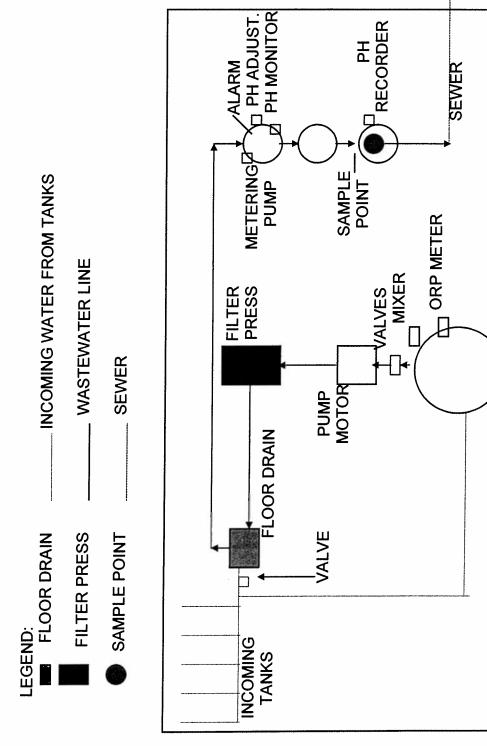




105'

6837 Farmdale Ave. North Hollywood, CA. 91605 Drawn By: Erik B. Andersen 2/21/96 Approved By: Erik B. Andersen 2/21/96 Pacific Magnetic & Penetrant Co., Inc.

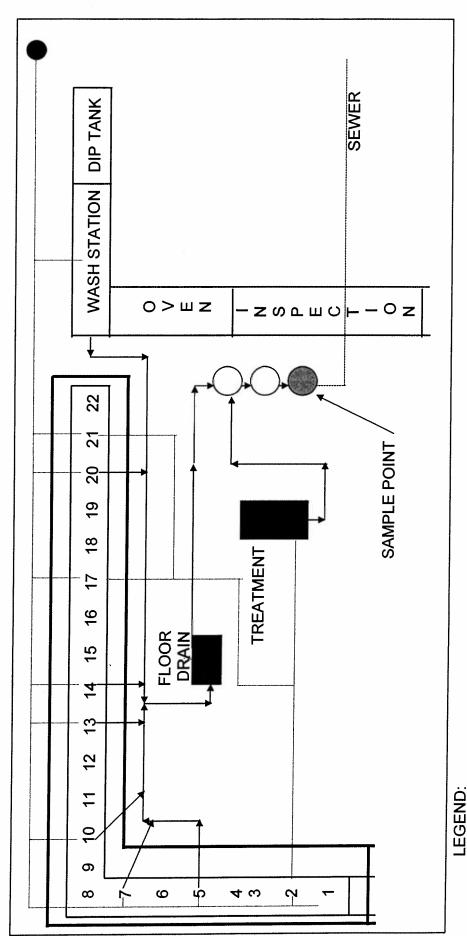
FARMDALE AVE.



PRETREATMENT SYSTEM

500 GAL. TREATMENT TANK

MANUFACTURING PROCESS LAYOUT



MAIN WATER SOURCE SPILL CONTAINMENT WATER SUPPLY LINE WASTEWATER LINE SEWER

Z

PACIFIC MAGNETIC & PENETRANT CO. 6837 FARMDALE AVE. N.H. CA. 91605 DRAWN BY: ERIK B.ANDERSEN 3/12/96 APP. BY: ERIK B. ANDERSEN 3/12/96 MANUFACTURING PROCESS LAYOUT

SITE PLAN 6829 FARMDALE AVE. Not to scale

LEGEND:

CLOCIND.
WATER METER

SAMPLING POINT

CONTAINMENT BERM

> CLOSED LOOP DRAIN

CLOSED LOOP SUMP DRAIN

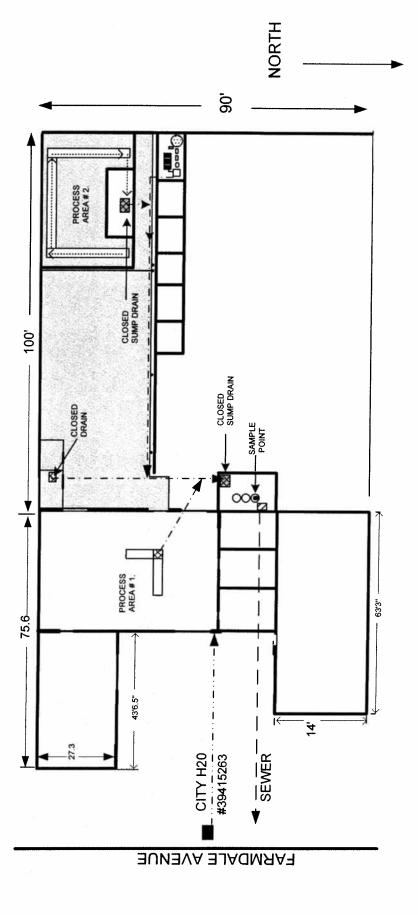
SEWER DRAIN

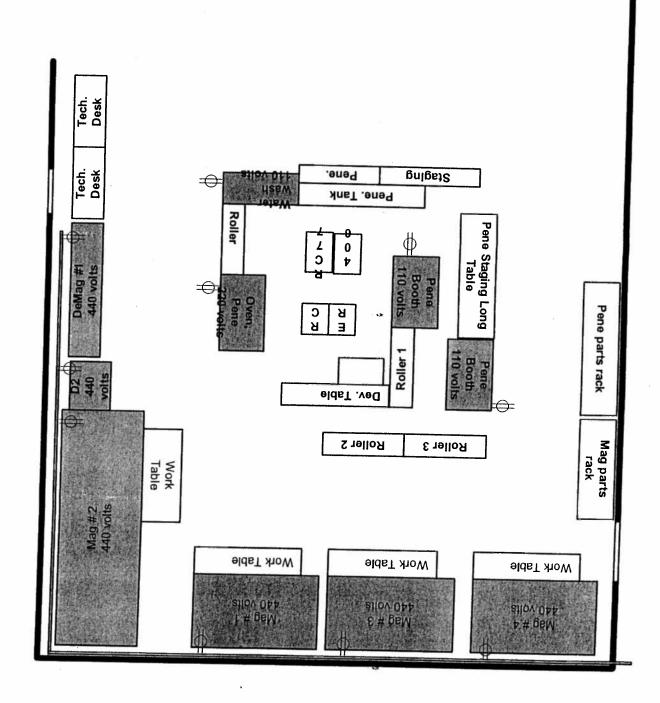
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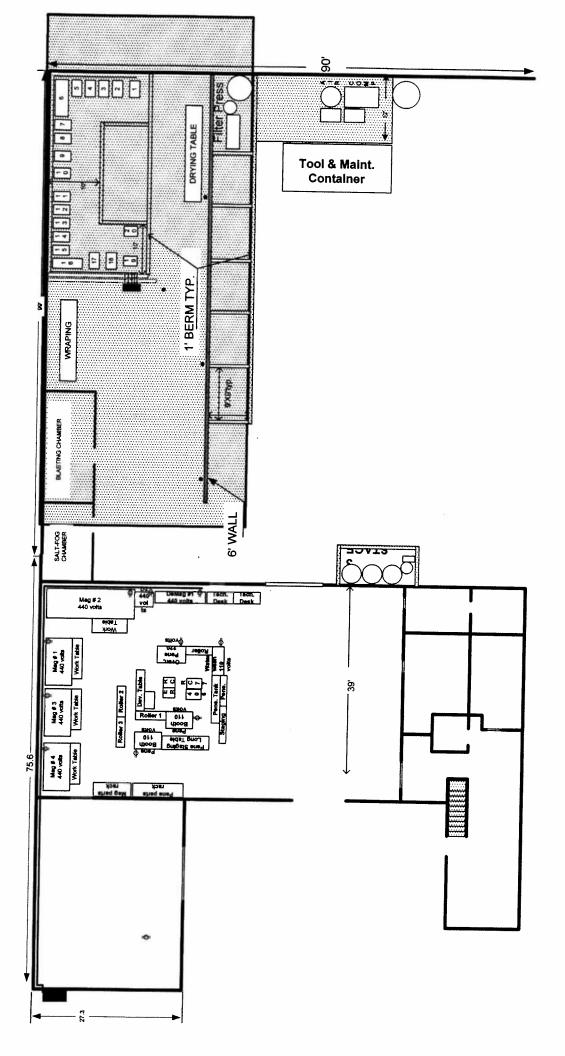
ABOVE GROUND SCLARIFIER

Question 19

6829 Farmose









FAA Certifled No. XQ2R302L

Question 20 PACIFIC MAGNETIC & PENETRANT CO., INC

PERFORMANCE SEVEN NORTHER - Accordated -

MAGNETIC AND PENETRANT INSPECTION PASSIVATION • GLASSBEAD • CHEMICAL ETCH

MT · PT
CHEMICAL PROCESSING

PMP CHEMICAL LIST

As of 5/20/2006

PRODUCT NAME	CAS NO.	QUANTITY
1. Nitric Acid	7697-37-2	55 gallons
2. Hydrochloric Acid	7647-01-0	30 gallons
3. Hydrofluoric Acid	7664-39-3	5 gallons
4. Sodium Hydroxide	1310732	200 lbs
5. Mi-Glow	12227-89-3	5 lbs
6. Base Oil HF	8042-47-5	55 gallons
7. Turco 4215 LT	9016-45-9	600 lbs
8. Propane	F9-98-6	30 gallons
9. D9OG Developer	N/A	5 gallons
10.HM 604 Dubl-Chek Penetrant	68131-40-8	55 gallons
11. ER85 Emulsifier	64742-53-6	30 gallons
12. Magna Glow Mag Particles	01-6130-51	.45 lbs
13. Ardrox Bio Pen	4H 22643	90 oz.
14. D-100 Developer	N/A	33 oz./936 gr.
15. DP-51 Penetrant	N/A	32 oz.
16. DP – 40	N/A	1065 grams
17. DR-60 Remover	N/A	2130 grams
18. Chromic Acid	1333-82-0	40 lbs.
19. Acetone	UX-1090-P6N	55 Gal.
20. HM-406 Penetrant	3L-K34	40 Gal.
21. Ensolv	4042 6/02	5 Gal.
22. Sodium Bichromate	739112-01	30 lbs.
23. Sodium Metabisulfite	7681-57-4	100 lbs.

Question 21

		MATERIA	L SAFETY DATA	SHEET		Page 1 Issued:	26/Oct/2001	CAS No 7738-	-94-5
Company	Details			**************************************					
Name	Protea Inc	dustrial Che	micals	Emerg	ency Phone N	Number	082-4	90-5011	***************************************
Address	Killarney	Ave.		Tel	<i>j</i> == =================================			50-8100	
	Killarney	Gardens		Fax				50-8180	
	Milnerton	*							
	E Mail: e	vonmaltzahı	@prochem.co.za			,			
1.Product	t and Com	pany Ident	fication:						
Trade / Co	ommercial	Name	CHROMIC ACID)		***************************************	rankite di Mariologia di propinsi propinsi di A	H	*********
Chemical	Name		Chromic acid, soli	id					
<u>Formula</u>			CrH2O4						
Chemical	<u>Family</u>								
Synonym	<u>s</u>		Chromic (VI) acid	l; Chromic acid	l (H2CrO4)				
<u>Un No</u>			1755		,	I	Hazchem Co	ođe 2v	N
ERG No.			154				EAC	 47	7
2.Compos	sition								
Hazardou	s Compone	<u>nts</u>			**************************************	Chroi	ne		
3.Hazard	s Identifica	tion:			***************************************				*************
Oxidizing	Agent If in	haled, coul	d be harmful. Cont	act causes seve	ere burns to sk	in and ey	es. Fire cou	ıld	·
produce in	ritating or j	poisonous g	ases. Runoff from	fire-control or	dilution water	could ca	use pollutio	n.	
4.First Ai	d Measure	s:	di manana di dalam manana manana da manana da da manana da manana da manana da manana da manana da manana da ma			······································			
First Aid S	Skin v	mmediately vater for at l	remove contamina east 15 minutes.	nted clothing, in	ncluding shoes	s. Flush b	oody with pl	enty of	***************************************
First Aid I	<u>Eyes</u> F	Flush eyes with water for 15 minutes. Hold eyelids open while washing.							
First Aid I		Not applicab		J	1		Ų.		
		* *	ELY remove to fre	esh air.					
		·····							

5. Fire Fighting Measures:

SMALL FIRES: Water only, no dry chemicals, CO2 or Halon. LARGE FIRES: Flood fire area with water. Do not move cargo or vehicle if cargo has been exposed to heat. Cool containers that are exposed to flames with water from the side until well after the fire is out. Stay away from ends of tanks. For massive fire in cargo area, use unmanned hose holder or monitor nozzles; if this is impossible, withdraw from area and let fire burn. Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind; keep out of low areas. Self-contained breathing apparatus (SCBA) and structural firefighter's protective clothing will provide limited protection.

6. Accidental Release Measures:

PRECAUTIONS: Restrict access to area. Provide adequate protective equipment and ventilation. Remove sources of heat and flame. Notify occupational and environmental authorities. SPILL OR LEAK: Keep combustibles (wood,paper,oil,etc) away from hazard area. Do not touch spilled material. Stop leak if you can do it without risk. Use water spray to reduce vapours. SMALL SPILLS: Flush area with flooding amounts of water. LARGE SPILLS: Dike liquid spill for later disposal

7.Handling and Storage:

Fire separation of at least 5M or 4Hr fire resistant wall from the following classes is recommended. Organic Peroxides Poison Corrosives Storage in the same room or space is prohibited with the following classes: The rooms or spaces should be at least 10M apart. Explosives Flammable Gases Poisonous Gases Flammable Liquids Flammable Solids Spontaneously Combustibles Dangerous When Wet Radioactive

8. Exposure Controls/Personal Protection:

Occupation Exposure Limits No Exposure Limits Established

The control measures appropriate for a particular worksite depend on how this material is used and on the extent of exposure. The best protection is to enclose operations and/or provide local exhaust ventilation at the site of chemical release. Use a non-sparking, grounded ventilation system separate from other exhaust

Controls |

ventilation systems. Exhaust directly to the outside. Supply sufficient replacement air to make up for air removed. Have a safety shower/eye wash

fountain readily available in the immediate work area

Personal Protection

If engineering controls and work practices are not effective in controlling this material, then wear suitable personal protection equipment, including chemical safety goggles & face shield, boots, imperious gloves, coveralls, & respiratory protection. Have appropriate equipment available for use in emergencies.

9. Physical and Chemical Properties:

Deliquescent crystals. Boiling Point of Solid: unstable at elevated temperatures. Melting Point: 196 oC Relative Density: 2,70 (water:1) Appreciably soluble in water. Solid or solution is reactive with oxidizable materials. Crystals are deliquescent and will attract moisture if exposed to humid air.

10.Stability and Reactivity:

Conditions To Avoid

Incompatible Material

Other

11.Toxicological Information:

12. Ecological Information:

No ecological problems are expected when the product is handled and used with due care.

13. Disposal Considerations:

Disposal Method Product

There are no uniform EC regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations. We recommend that you contact the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste.

<u>Disposal Method Packaging</u> Disposal in accordance with local legal provisions.

14. Transport Information:

<u>UN No</u> 1755 <u>EAC</u> 47

Hazchem Code 2w ERG No. 154

IMDG Code

5038

IMDG-Packaging Group

II

Marine Polutant

yes

Class

Class: 5.1 Oxidizing Agent Group: II

Subsidiary Risks

Corrosive

Tremcard Number

866

15.Regulatory Information:

EEC Hazard Classification 5.1

<u>Risk Phases</u> Contact with combustible material may cause fire Causes severe burns

Safety Phases After contact with skin, was immediately with plenty of ... (to be specified by the

manufacturer)

National Legislation

16:Other Information:

Reason for Alteration: General update. The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properness of the product.

All information is given in good faith but without guarantee in respect of accuracy and no responsibility is accepted for errors or ommisions or the consequences thereof

MSDS Number: S3506 * * * * * Effective Date: 07/29/03 * * * * * Supercedes: 12/01/00

Question 21

MSDS

Material Safety Data Sheet

From: Mallinckrodt Baker, Inc. 222 Red School Lane Phillipsburg, NJ 08865





24 Hour Emergency Telephone: 908-859-2151 CHEMTREC: 1-800-424-9300

National Response in Canada CANUTEC: 413-408-8666

Outside U.S. and Canada Chemtrec: 703-527-3887

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spil, leak; the, exposure or socident involving chemicals.

All non-emergency questions should be directed to Customer Service (1-800-582-2537) for assistance.

SODIUM DICHROMATE

1. Product Identification

Synonyms: Sodium bichromate; sodium bichromate dihydrate; chromic acid, disodium salt,

dihydrate; Sodium Dichromate, Dihydrate

CAS No.: 10588-01-9 (Anhydrous); 7789-12-0 (Dihydrate)

Molecular Weight: 298.0

Chemical Formula: Na2Cr2O7 2H2O

Product Codes:

J.T. Baker: 3672, 3674 Mallinckrodt: 7420, 7424

2. Composition/Information on Ingredients

Ingredient CAS No Percent Hazardous

Sodium Dichromate LO588-Dl-9 99 - 100% Yes

3. Hazards Identification

Emergency Overview

DANGER! CORROSIVE. CAUSES SEVERE BURNS TO EVERY AREA OF CONTACT. MAY BE FATAL IF SWALLOWED. HARMFUL IF INHALED. OXIDIZER. CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE. AFFECTS THE RESPIRATORY SYSTEM, LIVER, KIDNEYS, EYES, SKIN AND BLOOD. MAY CAUSE ALLERGIC REACTION. CANCER

HAZARD. CAN CAUSE CANCER. Risk of cancer depends on duration and level of exposure.

J.T. Baker SAF-T-DATA^(tm) Ratings (Provided here for your convenience)

Health Rating: 4 - Extreme (Cancer Causing)

Flammability Rating: 0 - None Reactivity Rating: 2 - Moderate

Contact Rating: 3 - Severe (Corrosive)

Lab Protective Equip: GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD;

PROPER GLOVES

Storage Color Code: White (Corrosive)

Potential Health Effects

Inhalation:

Corrosive. Extremely destructive to tissues of the mucous membranes and upper respiratory tract. May cause ulceration and perforation of the nasal septum. Symptoms may include sore throat, coughing, shortness of breath, and labored breathing. May produce pulmonary sensitization or allergic asthma. Higher exposures may cause pulmonary edema.

Ingestion:

Corrosive. Swallowing can cause severe burns of the mouth, throat, and stomach, leading to death. Can cause sore throat, vomiting, diarrhea. May cause violent gastroenteritis, peripheral vascular collapse, dizziness, intense thirst, muscle cramps, shock, coma, abnormal bleeding, fever, liver damage and acute renal failure.

Skin Contact:

Corrosive. Symptoms of redness, pain, and severe burn can occur. Dusts and strong solutions may cause severe irritation. Contact with broken skin may cause ulcers (chrome sores) and absorption, which may cause systemic poisoning, affecting kidney and liver functions. May cause skin sensitization.

Eve Contact:

Corrosive. Contact can cause blurred vision, redness, pain and severe tissue burns. May cause corneal injury or blindness.

Chronic Exposure:

Repeated or prolonged exposure can cause ulceration and perforation of the nasal septum, respiratory irritation, liver and kidney damage and ulceration of the skin. Ulcerations at first may be painless, but may penetrate to the bone producing "chrome holes." Known to be a human carcinogen.

Aggravation of Pre-existing Conditions:

Persons with pre-existing skin disorders, asthma, allergies or known sensitization to chromic acid or chromates may be more susceptible to the effects of this material.

4. First Aid Measures

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Ingestion:

If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Skin Contact:

Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

5. Fire Fighting Measures

Fire:

Not combustible, but substance is an oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition.

Explosion:

Strong oxidants may explode when shocked, or if exposed to heat, flame, or friction. Also may act as initiation source for dust or vapor explosions.

Fire Extinguishing Media:

Use any means suitable for extinguishing surrounding fire. Water spray may be used to keep fire exposed containers cool.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal. US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

7. Handling and Storage

Protect against physical damage. Store in a dry location separate from combustible, organic or other readily oxidizable materials. Avoid storage on wood floors. Remove and dispose of any spilled dichromates; do not return to original containers. Wear special protective equipment (Sec. 8) for maintenance break-in or where exposures may exceed established exposure levels. Wash hands, face, forearms and neck when exiting restricted areas. Shower, dispose of outer clothing, change to clean garments at the end of the day. Avoid cross-contamination of street clothes. Wash hands before eating and do not eat, drink, or smoke in workplace. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

- OSHA Permissible Exposure Limit (PEL):

For chromic acid and chromates, as CrO3 = 0.1 mg/m3 (ceiling)

- ACGIH Threshold Limit Value (TLV):

For water-soluble Cr(VI) compounds, as Cr = 0.05 mg/m3 (TWA), A1 - confirmed human carcinogen.

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved):

If the exposure limit is exceeded and engineering controls are not feasible, a half facepiece particulate respirator (NIOSH type N95 or better filters) may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest.. A full-face piece particulate respirator (NIOSH type N100 filters) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection:

Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance: Orange-red crystals or granules. Odor: Odorless. Solubility: Soluble in water (73%) **Specific Gravity:** 2.35 @25C (77F) :Hq 3.5 (1% solution) 4.0 (10% solution) % Volatiles by volume @ 21C (70F): **Boiling Point:** 400C (752F) **Melting Point:** 357C (675F) Vapor Density (Air=1): 10

Vapor Pressure (mm Hg): 0 @ 20C (68F) Evaporation Rate (BuAc=1): No information found.

10. Stability and Reactivity

Stability:

Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products:

Burning may produce chrome oxides.

Hazardous Polymerization:

Will not occur.

Incompatibilities:

Hydrazine, acetic anhydride, ethanol, trinitrotoluene, hydroxylamine, strong acids, oxidizable materials especially in the presence of strong acid solutions. Any combustible, organic or other readily oxidizable material (paper, wood, sulfur, aluminum or plastics).

Conditions to Avoid:

Heat, incompatibles.

11. Toxicological Information

Oral rat LD50: 50 mg/kg. Investigated as a tumorigen, mutagen, reproductive effector.

\Cancer Lists\			
	NTP	Carcinogen	
Ingredient	Known	Anticipated	IARC Category
Sodium Dichromate (10588-01-9)	Yes	No	l.

12. Ecological Information

Environmental Fate:

When released into the soil, this material may leach into groundwater. When released into water, this material is not expected to evaporate significantly. This material may bioaccumulate to some extent. When released into the air, this material may be removed from the atmosphere to a moderate extent by wet deposition.

Environmental Toxicity:

This material is expected to be toxic to aquatic life.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations

may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Domestic (Land, D.O.T.)

Proper Shipping Name: TOXIC SOLID, CORROSIVE, INORGANIC, N.O.S. (SODIUM

DICHROMATE)
Hazard Class: 6.1, 8
UN/NA: UN3290
Packing Group: II

Information reported for product/size: 100LB

International (Water, I.M.O.)

Buoner Chimain a Name TOVI

Proper Shipping Name: TOXIC SOLID, CORROSIVE, INORGANIC, N.O.S. (SODIUM

DICHROMATE)
Hazard Class: 6.1, 8
UN/NA: UN3290
Packing Group: II

Information reported for product/size: 100LB

15. Regulatory Information

Ingredient	Inventory Status - Part					Australia
Sodium Dichromate			Yes	Yes	Yes	Yes
\Chemical	Inventory Status - Part	5/				
Ingredient			Korea		bbane 120N	Phil.
Sodium Dichromate	(10588-01-9)		Yes	Yes	No	
\Federalı	State & International Re					
Ingredient		RQ RQ				A 313 nical Catg.
Sodium Dichromate		No	No	No	Chr	omium com
\Federalı	State & International Re	gulati	ons -			
Ingredient		CERCL	A		-TS	(d)
Sodium Dichromate	(10588-01-9)	10	-	No	N c)

Chemical Weapons Convention: No TSCA 12(b): Yes CDTA: No SARA 311/312: Acute: Yes Chronic: Yes Fire: Yes Pressure: No Reactivity: No (Pure / Solid)

WARNING:

THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

Australian Hazchem Code: 1WE

Poison Schedule: S6

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. Other Information

NFPA Ratings: Health: 3 Flammability: 1 Reactivity: 1

Label Hazard Warning:

DANGER! CORROSIVE. CAUSES SEVERE BURNS TO EVERY AREA OF CONTACT. MAY BE FATAL IF SWALLOWED. HARMFUL IF INHALED. OXIDIZER. CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE. AFFECTS THE RESPIRATORY SYSTEM, LIVER, KIDNEYS, EYES, SKIN AND BLOOD. MAY CAUSE ALLERGIC REACTION. CANCER HAZARD. CAN CAUSE CANCER. Risk of cancer depends on duration and level of exposure.

Label Precautions:

Keep from contact with clothing and other combustible materials.

Do not get in eyes, on skin, or on clothing.

Do not breathe dust or mist from solutions.

Keep container closed.

Use only with adequate ventilation.

Wash thoroughly after handling.

Store in a tightly closed container.

Do not store near combustible materials.

Label First Aid:

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. In all cases get medical attention immediately.

Product Use:

Laboratory Reagent.

Revision Information:

MSDS Section(s) changed since last revision of document include: 8.

Disclaimer:

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Prepared by: Environmental Health & Safety

Phone Number: (314) 654-1600 (U.S.A.)

Question 24

BRENNTAG WEST, INC. 10747 PATTERSON PLACE SANTA FE SPRINGS, CA 90670 PHONE#... (562)903-9626 MSDS#... 24 2/14/02 P

MATERIAL SAFETY DATA SHEET NITRIC ACID 38 BE, 42 BE, TOWER GRADE

EXTINGUISHING MEDIA: USE THAT WHICH IS APPROPRIATE FOR THE SURROUNDING FIRE.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
THIS PRODUCT CAN CAUSE SPONTANEOUS IGNITION OF SOME MATERIALS. CAN REACT
EXPLOSIVELY WITH METALLIC POWDERS, ALCOHOL, CHARCOAL, ORGANIC ACIDS, HYDROGEN SULFIDE AND TURPENTINE. INCREASES THE FLAMMABILITY OF COMBUSTIBLE AND
OTHER ORGANIC OR READILY OXIDIZABLE MATERIALS. CONTACT OF THIS PRODUCT
WITH COMMON METALS MAY GENERATE HYDROGEN GAS, WHICH CAN FORM FLAMMABLE
MIXTURES WITH AIR.

SPECIAL FIRE FIGHTING PROCEDURES:
WEAR APPROPRIATE PROTECTIVE EQUIPMENT INCLUDING RESPIRATORY PROTECTION AS
CONDITIONS WARRANT (SEE SECTION 9). STOP SPILL/RELEASE IF IT CAN BE DONE
WITHOUT RISK. MOVE UNDAMAGED CONTAINERS FROM FIRE AREA IF IT CAN BE DONE
WITHOUT RISK. WATER SPRAY MAY BE USEFUL IN MINIMIZING OR DISPERSING
VAPORS AND COOLING EQUIPMENT EXPOSED TO HEAT AND FLAME.

REACTIVITY: STABLE UNDER NORMAL CONDITIONS OF STORAGE AND HANDLING.

CONDITIONS AFFECTING REACTIVITY:
OXIDIZER. DANGEROUSLY REACTIVE WITH MANY MATERIALS. AVOID EXPOSURE TO
DIRECT SUNLIGHT.

INCOMPATIBLE MATERIALS:

CAN SUPPORT COMBUSTION AND MAY INCREASE THE FLAMMABILITY OF COMBUSTIBLE,
ORGANIC AND OTHER READILY OXIDIZABLE SUBSTANCES. AVOID CONTACT WITH
HYDROCARBONS, CHLORATES, SULFUR, HYDROGEN SULFIDE, CHARCOAL, FINELY
DIVIDED METALS, WOOD, SAWDUST, BASE METALS AND OTHER EASILY OXIDIZED
MATERIAL, AND STRONGLY ALKALINE MATERIALS WHICH MAY CAUSE VIOLENT
SPLATTERING AND LIBERATE HEAT AND AMMONIA. THIS MATERIAL IS CORROSIVE TO
METAL (SEE SECTION 3) AND WILL GENERATE OXIDES OF NITROGEN AND HYDROGEN
GAS.

HAZARDOUS DECOMPOSITION PRODUCTS:
NITRIC OXIDE (NO) AND NITROGEN DIOXIDE (NO2) ARE DECOMPOSITOIN PRODUCTS
THAT ACCUMULATE UNDER NORMAL STORAGE CONDITIONS. IF INVOLVED IN A FIRE,
OXIDES OF NITROGEN MAY BE GENERATED.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

POLYMERIZATION CONDITIONS TO AVOID: NONE KNOWN.

Section 05 Spill, Leak And Disposal Procedures

PRECAUTIONS IN CASE OF RELEASE OR SPILL:

The information herein is given in good faith, but no warranty, express or implied, is made.

Specific Gravity..... Evaporation Rate(Bu.Ac.=1)

(562) 903-9626 MSDS#... 24 2/14/02 PAGE 1 MATERIAL SAFETY DATA SHEET NITRIC ACID 38 BE, 42 BE, TOWER GRADE Section 01 Identification ******************************** UNOCAL CORP. 1201 W. 5TH ST., LOS ANGELES, CA. 90017 202/483-7616, 800/424-9300 (CHEMTREC) EFF. DATE:09/28/93, REVISED 10/23/98 NITRIC ACID 38 BE, 42 BE, TOWER GRADE Info Furnished By..... Emergency Phone #..... Date Effective Product or Trade Name.... HAZARDOUS INGREDIENTS CAS REGISTRATION # HAZARD DATA PERCENT EXPOSURE LIMIT UNITS AGENCY TYPE NITRIC ACID (%) ACGIH PPM TWA CAS# 7697-37-2 56-67 2.000 PPM ACGIH STEL 4.000 2.000 PPM MSHA TWA PPM OSHA TWA 2.000 NITRIC OXIDE Mqq ACGIH TWA CAS#10102-43-9 VARIES 25.000 25,000 PPM MSHA TWA PPM 25,000 OSHA TWA PPM CAL OSHA 25.000 TWA NITROGEN DIOXIDE PPM ACGIH TWA CAS# 10102-44-0 VARIES 3.000 5.000 PPM ACGIH STEL PPM 5.000 MSHA CEIL PPM OSHA STEL 1.000 CAL OSHA 3.000 PPMTWA OTHER COMPONENTS: WATER CAS# 7732-18-5 NOT ESTABLISHED 33-44 SYNONYMS: HYDROGEN NITRATE HNO3 GENERIC NAME: NITRIC ACID Section 02 Physical Data APPROXIMATELY 246 - 250 DEG. F. Boiling Point (760 MM HG) .. % Volatile By Volume..... 100 Melting Point..... -6 TO 31 F Vapor Density (Air=1) 1.5 - 1.7Solubility In Water......
Appearance & Color...... 100%

38 BE=1.355, 42 BE = 1.408

>1 APPROXIMATE BULK DENSITY (LB/GAL):38 BE = 11.3, 42 BE = 11.7

Section 03 Fire And Explosion Hazard Data

CLEAR COLORLESS LIQUID WITH SHARP, PUNGENT ODOR

BRENNTAG WEST, INC. 10747 PATTERSON PLACE SANTA FE SPRINGS, CA 90670

fa . PMP QÇA Question 21

ETIC PENETRANT Wednesday, October 26, 200



JONES-HAMILTON CO.

8400 Enterprise Drive, Newark, CA 94560-3310

(510) 797-2471

MATERIAL SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

Product Name: Hydrochloric acid, 17 to 37% Product Code: HCL01

Synonyms: Hydrogen chloride solution, Muriatic acid

Product Use: Acidizing (activation) of petroleum wells, food industry, scale removal, metal

cleaning, pH adjustment, industrial acidizing.

Date of MSDS Preparation: March 2002

Manufacturer's Name/Address:

Jones-Hamilton Co.

8400 Enterprise Drive

Newark, CA 94560

-or-

30354 Tracy Road

Walbridge, OH 43465

24-Hour Emergency Phone Numbers [U.S.A.]:

California: (510) 797-2471

Ohio: (419) 666-9838

CHEMTREC: 800-424-9300

National Response in Canada: 800-265-9426

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Formula: HCI

Component CAS#

% (by weight) Baumé Exposure Limits Hydrogen chloride 7647-01-0 17 - 37.111.4 to 23° 5 ppm (7 mg/m³) ceiling Water 7732-18-5 62.9 - 83Not Applicable

OSHA: This material is classified as hazardous under current OSHA regulations.

SECTION 3 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Colorless to light yellow liquid that fumes in air.

Highly corrosive! Contact can cause eye burns and permanent tissue damage. Furnes corrosive to eyes and respiratory tract. Highly toxic to fish and other water organisms.

Potential Health Effects:

MSDS: HCL01

Page 1 of 8

Revised: 3/11/2002 Printed: 4/8/2002



Material Safety Data Sheet

HYDROFLUORIC ACID, AQUEOUS (70%)

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Hydrofluoric Acid, Aqueous (70%)

OTHER/GENERIC NAMES: Aqueous HF, Hydrofluoric Acid Solution, 70% HF

PRODUCT USE: Metal Pickling, Glass Etching, Chemical Derivatives

MANUFACTURER: Honeywell International ·

Industrial Fluorines
101 Columbia Road

Box 1053

Morristown, New Jersey 07962-1053

FOR MORE INFORMATION CALL:

(Monday-Friday, 8:00am-4:30pm EST) HF Technical Service Department 800-622-5002

IN CASE OF EMERGENCY CALL:

(24 Hours/Day, 7 Days/Week)
1-800-707-4555 (Honeywell)
For Transportation Emergencies:
1-800-424-9300 (CHEMTREC for US)
1-613-996-6666 (CANUTEC for Canada)

2. COMPOSITION/INFORMATION ON INGREDIENTS

 INGREDIENT NAME
 CAS NUMBER
 WEIGHT %

 Hydrofluoric Acid
 7664-39-3
 70

 Water
 7732-18-5
 30

Trace impurities and additional material names not listed above may also appear in the Regulatory Information Section 15 towards the end of the MSDS. These materials may be listed for local "Right-To-Know" compliance and for other reasons.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Clear, colorless, corrosive fumling liquid with an extremely acrid odor. Forms dense white vapor clouds if released. Both liquid and vapor can cause severe burns to all parts of the body. Specialized medical treatment is required for all exposures.

MATERIAL SAFETY DATA SHEET

Hydrofluoric Acid, Aqueous (70%)

POTENTIAL HEALTH HAZARDS

Both liquid and vapor can cause severe burns, which may not be immediately painful or visible. HF will SKIN:

penetrate skin and attack underlying tissues and bone. Large burns (totaling over 25 square inches of body surface area) may also cause hypocalcemia (depletion of calcium in the body) and other toxic effects

which may be fatal. Solutions as dilute as 2% may cause burns with prolonged contact.

EYES: Both liquid and vapor can cause irritation or corneal burns. Solutions as dilute as 2% may cause burns.

Mild exposure: Can irritate nose, throat and respiratory system. Onset of symptoms may be INHALATION:

delayed for several hours.

Severe exposure: Can cause nose and throat burns, lung inflammation and pulmonary edema (fluid in the lungs). Also results in other toxic effects including hypocalcemia (depletion of

calcium in the body) which if not properly treated can result in death.

Can cause severe mouth, throat and stomach burns and may be fatal if swallowed. Even with INGESTION:

small amounts of dilute solutions, profound and possibly fatal hypocalcemia (depletion of calcium in body) and systematic toxicity is likely to occur unless medical treatment is promptly

initiated.

DELAYED EFFECTS: The effects of contact with dilute solutions of hydrofluoric acid or its vapors may be

delayed. The potential delay in clinical signs or symptoms for dilute solutions is given

below:

HF Concentration Delay in Symptoms

> > 50% Immediately Apparent

20%-50% 1-8 hours

0%-20% Up to 24 hours

Can also cause bone and joint changes in humans (Fluorosis).

Carcinogenicity: Hydrofluoric Acid is not listed by NTP, IARC, OSHA or ACGIH as a carcinogen.

4. FIRST AID MEASURES

SKIN: Remove the victim from the contaminated area and immediately wash the burned area with plenty of water for a minimum of 15 minutes. Limit washing to 5 minutes if definitive medical treatment is available. Remove all contaminated clothing while washing continuously. After thorough washing for at least 5 minutes, the burned area should be immersed in a solution of 0.13% iced aqueous Zephiran® Chloride until pain is relieved. As an alternate first aid treatment, 2.5% calcium gluconate gel may be continuously massaged into the burn area until the pain is relieved. For larger burns or burns treated with calcium gluconate gel (in which pain is present longer than 30 minutes), a physician should inject 5% aqueous calcium gluconate beneath, around and in the burned area. Use of local anesthetics is not recommended, as reduction in pain is an indicator of effectiveness of treatment.

MATERIAL SAFETY DATA SHEET

Hydrofluoric Acid, Aqueous (70%)

EYES: Irrigate eyes for at least 15 minutes with copious quantities of water, keeping eyelids apart and away from eyeballs during irrigation. Get competent medical attention immediately, preferably an eye specialist. If a physician is not immediately available, apply one or two drops of 0.5% Pontocaine® Hydrochloride solution followed by a second irrigation for 15 minutes. Do not use the solution described for skin treatment. Use no oils or greases unless instructed to do so by a physician. Irrigate with 1% calcium gluconate in normal saline for 1 to 2 hours to prevent or lessen corneal damage.

INHALATION: Move to fresh air. Keep the victim lying down, quiet and warm. Get competent medical attention immediately. If breathing has stopped, start artificial respiration at once. An authorized person should administer oxygen to a victim who is having difficulty breathing, until the victim is able to breathe easily by himself. Do not give stimulants unless instructed to do so by a physician. Victim should be examined by a physician and held under observation for at least 24 hours. Calcium Gluconate, 2.5% in normal saline may be given by nebulizer with oxygen.

INGESTION: Drink large amounts of water to dilute. Do not induce vomiting. Several glasses of milk or several ounces of milk of magnesia may be given for their soothing effect. Take victim to a doctor.

ADVICE TO PHYSICIAN: For burns of large skin areas (greater than 25 square inches), for ingestion and for significant inhalation exposure, severe systemic effects may occur. Monitor and correct for hypocalcemia, cardiac arrhythmias, hypomagnesemia and hyperkalemia. In come cases renal dialysis may be indicated. For certain burns, especially of the digits, use of intra-arterial calcium gluconate may be indicated. For inhalation exposures, treat as chemical pneumonia. Monitor for hypocalcemia. 2.5% calcium gluconate in normal saline by nebulizer or by IPPB with 100% oxygen may decrease pulmonary damage. Bronchodilators may also be administered.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASH POINT: Not flammable

FLASH POINT METHOD: Closed cup

AUTOIGNITION TEMPERATURE: Not applicable
UPPER FLAME LIMIT (volume % in air): Not applicable
LOWER FLAME LIMIT (volume % in air): Not applicable
FLAME PROPAGATION RATE (solids): Not applicable
OSHA FLAMMABILITY CLASS: Not applicable

EXTINGUISHING MEDIA:

Use water or suitable agent for fires adjacent to non-leaking tanks or containers of HF. Do not use solid water streams near ruptured tanks or spills of HF. Acid reacts with water and can splatter acid onto personnel.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Reaction with certain metals generates flammable and potentially explosive hydrogen gas. Considerable heat is evolved when contacted with many substances. Heat increases pressure and may explode container. Will react violently with water.

SPECIAL FIRE FIGHTING PRECAUTIONS/INSTRUCTIONS:

Wear self-contained breathing apparatus approved by NIOSH and full chemical protective clothing. Use water

Question 21

LYNCH CORPORATION 3270 E. WASHINGTON BLVD. LOS ANGELES, CA 90023 E#... (213)269-0191 MSDS#... 5022

12/17/97

TERIAL SAFETY DATA SHEET

UNION CARBIDE CHEMICALS & PLASTICS CO., INC. 39 OLD RIDGEBURY ROAD, DANBURY, CT. 06817-0001 1/800-UCC-HELP,304/744-3487,800/424-9300 CHEMTREC EFFECTIVE DATE:08/05/93, DATE ENTERED:06/09/94

ACETONE KETONES ACETONE

HAZARDOUS INGREDIENTS CAS REGISTRATION #

67-64-1

APPROX.100% ACETONE

30 PPM MAX. BENZENE

OSHA & ACGIH 1000 PPM STEL OSHA & ACGIH 1 PPM TWA, OSHA 71-43-2 5 PPM STEL, OSHA

10 PPM TWA, ACGIH 25 PPM CEILING, UCC

HAZARD DATA EXPOSURE LIMIT 750 PPM TWA,

FORMULA: CH3COCH3

MOLECULAR WEIGHT: 58.08

SYNONYMS: DIMETHYL KETONE, 2-PROPANONE, DIMETHYL KETAL

CAS# AND NAME: 67-64-1 2-PROPANONE

CHEMICAL NAME: ACETONE 56.29C 133.32F

184 MMHG

2.0 BY WEIGHT: COMPLETE AT 20 C

TRANSPARENT COLORLESS

(H20=1): 0.7915 AT 20/20 C

14.4

FREEZING POINT......-96.54 C (-141.77 F)

ODOR..... MINT PHYSICAL STATE..... LIQUID

% VOLATILES (BY WEIGHT):.. 100 O F (-18 C), TAG CLOSED CUP ASTM D 56

FLAMMABLE LIMITS IN AIR (% BY VOLUME):

LOWER: 2.15 UPPER: 13.0

EXTINGUISHING MEDIA:

APPLY ALCOHOL-TYPE OR ALL-PURPOSE-TYPE FOAM BY MANUFACTURER'S RECOMMENDED TECHINQUES FOR LARGE FIRES. USE CARBON DIOXIDE OR DRY CHEMICAL MEDIA FOR SMALL FIRES.

SPECIAL FIRE-FIGHTING PROCEDURES:

USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS AND STRUCTURES.

USE REMOTE SPRAY MONITORS OR FIGHT FIRE FROM BEHIND SHIELDS.

USE WATER SPRAY TO DISPERSE VAPORS; RE-IGNITION IS POSSIBLE.

USE SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

VAPORS FORM FROM THIS PRODUCT AND MAY TRAVEL OR BE MOVED BY AIR CURRENTS AND IGNITED BY PILOT LIGHTS, OTHER FLAMES, SMOKING, SPARKS, HEATERS, ELECTRICAL EQUIPMENT, STATIC DISCHARGES OR OTHER IGNITION SOURCES AT LOCATIONS DISTANT FROM PRODUCT HANDLING POINT.

VAPORS FROM THIS MATERIAL MAY SETTLE IN LOW OR CONFINED AREAS OR TRAVEL A LONG DISTANCE TO AN IGNITION SOURCE AND FLASH BACK EXPLOSIVELY. THIS

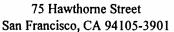
MATERIAL MAY PRODUCE A FLOATING FIRE HAZARD.

The information herein is given in good faith, but no warranty, express or implied, is made.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IX



Question 22



CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD LOS ANGELES REGION 101 Centre Plaza Drive Monterey Park, CA 91754-2156

March 26, 1998

PACIFIC MAGNETIC & PENETRATE 6829 FARMDALE AVE. N. HOLLYWOOD, CA 91605-File Number: 111.2505

RE: SAN FERNANDO VALLEY SUPERFUND AREAS U.S. EPA AND LARWQCB

NOTIFICATION OF NO FURTHER ACTION

For property located at: 6829 FARMDALE AVE.

NORTH HOLLYWOOD, CA 91605-

Dear Owner/Operator,

The California Regional Water Quality Control Board, Los Angeles Region ("Regional Board") staff has conducted an assessment of your facility to determine the extent of solvent usage and to assess past and current chemical handling, storage and disposal practices. Your company is among those in the San Fernando Valley which have received the Regional Board's "No Further Action" letters based on one or more of the following categories: 1) information provided in your pre-inspection questionnaire disclosed little or no solvent use; 2) the results of a staff inspection disclosed little or no solvent use; or 3) completed assessment work indicated insignificant or no solvent contamination in soil.

The purpose of this letter is to inform you that, based on the information provided to U.S. EPA by the Regional Board to date, you will not be asked by the U.S. EPA or the Regional Board to participate in regional groundwater cleanup projects currently planned for San Fernando Valley. Your company is no longer part of the U.S. EPA Superfund process, and the Regional Board and U.S. EPA plan no further action concerning your facility.

You may be contacted by those potentially responsible parties ("PRPs") that have been asked to participate in the groundwater cleanup efforts. In the event you are contacted by PRPs, please feel free to contact the appropriate Regional Board or U. S. EPA staff for additional information or assistance. The telephone numbers of Regional Board and U. S. EPA staff are provided on the enclosed contact list.

Sincerely,

Keith A. Takata Director

Superfund Division U. S. EPA, Region 9 Dennis A. Dickerson

Executive Officer California Regional Water Quality

Control Board, Los Angeles Region

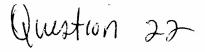
Enclosure

Los Angeles-Regional Water Quality Control Board and U. S. Environmental Protection Agency Staff Contact List

Regional Board Contacts:

- For all areas	Eric Nupen (213) 266-7531
- For general questions	Hank Yacoub (213) 266-7522
U. S. EPA Contact	
- For Glendale area	Duane G. James (415) 744-2253
- For Burbank area	Diane Strassmaier (415) 744-2157
- For No. Hollywood area	Lance Richman (415) 744-2249
Legal concerns should be address to	Marie Rongone (415) 744-1313 Office of Regional Counsel U.S. EPA







Pete Wilson Governor

Los Angeles Regional Water **Quality Control** Board

101 Centre Plaza Drive Monterey Park, CA 91754-2156 (213) 266-7500 FAX (213) 266-7600

November 5, 1997

Erik B. Andersen, President Pacific Magnetic and Penetrant Co., Inc. 6837 Farmdale Avenue North Hollywood, CA 91605

NO FURTHER REQUIREMENTS - PACIFIC MAGNETIC AND PENETRANT CO., INC., 6837 FARMDALE AVENUE, NORTH HOLLYWOOD (FILE NO. 111.2505)

According to our records, the subject facility has been occupied by a metal parts inspection business for more than ten years. During our inspections on January 23, 1991, and November 4, 1997, Board staff noted potential sources of liquid wastes including storage and process areas where acids, acetone and oil were used. The facility was observed to be clean and well maintained and no evidence of spillage was noted. Based on our inspections and information submitted, we have no further requirements with respect to the Well Investigation Program.

Please contact the undersigned at (213)266-7531 if you have any questions.

ERIC NUPEN, R.G.

Senior Engineering Geologist

Lance Richman, USEPA Region IX, San Francisco

Mel Blevins, ULARA Watermaster



Question 25

Property Insurance

Declarations

Named Insured and Mailing Address

PACIFIC MAGNETIC & PENETRANT CO., INC. 6829 FARMDALE AVE.

NORTH HOLLYWOOD, CA 91605

Chubb Group of Insurance Companies 15 Mountain View Road Warren, NJ 07059

Policy Number 3535-37-17 WUC

Effective Date NOVEMBER 1, 2005

Issued by the stock insurance company indicated below, herein called the company.

FEDERAL INSURANCE COMPANY

Producer No. 0010092

Incorporated under the laws of

INDIANA

Producer

INDUSTRIAL RISK AND INSURANCE SERVICES, INC.

1611 E 17TH STREET

SANTA ANA, CA 92705-0000

Policy Period

From: NOVEMBER 1, 2005

To: NOVEMBER 1, 2006

12:01 A.M. standard time at the Named Insured's mailing address shown above.

Deductible

\$ 5.000

The deductible shown above applies to all coverages, except Business Income and Extra Expense, and all premises shown in this and all other property declarations, unless a specific deductible is shown following a coverage.

The following displays the coverages provided at the premises stated below:

Premises Coverages

Premises Coverages - Blanket Limits

BLANKET LIMIT OF INSURANCE AUTOMATIC INCREASE IN LIMITS

\$ 544,384

4%

COVERAGES
PERSONAL PROPERTY

PREMISES #1

6829 FARMDALE AVE.

NORTH HOLLYWOOD, CALIFORNIA 91605

Property Insurance

Issue Date: NOVEMBER 4, 2005

Premises Coverages

(continued)

PREMISES #2

6837 FARMDALE AVE.

NORTH HOLLYWOOD, CALIFORNIA 91605

BLANKET LIMIT OF INSURANCE

\$ 300,000

COINSURANCE

50%

WAITING PERIOD

24 HOURS

EXTENDED PERIOD NUMBER OF DAYS

UNLIMITED

COVERAGES

BUSINESS INCOME WITH EXTRA EXPENSE

PREMISES #1

6829 FARMDALE AVE.

NORTH HOLLYWOOD, CALIFORNIA 91605

PREMISES #2

6837 FARMDALE AVE.

NORTH HOLLYWOOD, CALIFORNIA 91605

BLANKET LIMIT OF INSURANCE

\$ 120,000

DEDUCTIBLE

\$ 1,000

AUTOMATIC INCREASE IN LIMITS

4%

COVERAGES

EDP PROPERTY

PREMISES #1

6829 FARMDALE AVE.

NORTH HOLLYWOOD, CALIFORNIA 91605

PREMISES #2

6837 FARMDALE AVE.

NORTH HOLLYWOOD, CALIFORNIA 91605

BLANKET LIMIT OF INSURANCE

\$ 824,445

AUTOMATIC INCREASE IN LIMITS

4%

COVERAGES

BUILDING

PREMISES #1

6829 FARMDALE AVE.

NORTH HOLLYWOOD, CALIFORNIA 91605

PREMISES #2

6837 FARMDALE AVE.

NORTH HOLLYWOOD, CALIFORNIA 91605

Additional Coverages

IN TRANSIT

Property Insurance

Issue Date: NOVEMBER 4, 2005



Declarations

Effective Date

NOVEMBER 1, 2005

Policy Number

3535-37-17 WUC

Additional Coverages (continued)

FINE ARTS

\$ 50,000 LIMIT OF INSURANCE \$ 1,000 **DEDUCTIBLE**

PERSONAL PROPERTY LIMIT OF INSURANCE

\$ 20,000 \$ 1,000 DEDUCTIBLE

Property Coverages	Limit Of Insurance	
IN TRANSIT		
ACCOUNTS RECEIVABLE	\$ 15,000	
BUILDING COMPONENTS	\$ 15,000	
ELECTRONIC DATA PROCESSING PROPERTY	\$ 50,000	
FINE ARTS	\$ 15,000	
PERSONAL PROPERTY	\$ 15,000	
VALUABLE PAPERS	\$ 15,000	
LOSS OF MASTER KEY	\$ 15,000	
LOSS PREVENTION EXPENSES	\$ 10,000	
MOBILE COMMUNICATION PROPERTY	\$ 5,000	
MONEY & SECURITIES		
ON PREMISES	\$ 15,000	
OFF PREMISES	\$ 10,000	
POLLUTANT CLEAN-UP OR REMOVAL	\$ 25,000	
PROCESSING WATER	\$ 10,000	
PREPARATION OF LOSS FEES	\$ 10,000	

The following displays the Coverages and the applicable Limits Of Insurance for:

Newly Acquired Premises Or Newly Acquired Or Constructed Property	Limit Of Insurance
BUILDING	\$ 1,000,000
PERSONAL PROPERTY	\$ 500,000
PERSONAL PROPERTY AT EXISTING PREMISES	\$ 100,000
ELECTRONIC DATA PROCESSING EQUIPMENT	\$ 250,000
ELECTRONIC DATA	\$ 50,000
COMMUNICATION PROPERTY	\$ 50,000
FINE ARTS	\$ 15,000



Schedule of Mortgagees And Loss Payees

Chubb Group of Insurance Companies

15 Mountain View Road Warren, NJ 07059

Named Insured and Mailing Address

Policy Number 3535-37-17 WUC

PACIFIC MAGNETIC & PENETRANT CO., INC.

6829 FARMDALE AVE.

NORTH HOLLYWOOD, CA 91605

Effective Date NOVEMBER 1, 2005

Issued by the stock insurance company indicated below, herein called the company.

FEDERAL INSURANCE

COMPANY

Producer No. 0010092

Incorporated under the laws of

INDIANA

Producer

INDUSTRIAL RISK AND INSURANCE SERVICES, INC.

1611 E 17TH STREET

SANTA ANA, CA 92705-0000

Policy Period

From: NOVEMBER 1, 2005

To: NOVEMBER 1, 2006

12:01 A.M. standard time at the Named Insured's mailing address shown above.

SCHEDULE

PREMISES # 1

6829 FARMDALE AVE.

NORTH HOLLYWOOD, CALIFORNIA 91605

MORTGAGEE:

LARS E. BRUUN-ANDERSEN, TRUSTEE OF THE NEILS

BRUUN-ANDERSEN TRUST DATED 11-1-90

PREMISES # 2

6837 FARMDALE AVE.

NORTH HOLLYWOOD, CALIFORNIA 91605

MORTGAGEE:

LARS E. BRUUN-ANDERSEN, TRUSTEE OF THE NEILS

BRUUN-ANDERSEN TRUST DATED 11-1-90

-6 Personal Privac

Issue Date: NOVEMBER 4, 2005



Supplementary Declarations — Property

Chubb Group of Insurance Companies 15 Mountain View Road Warren, NJ 07059

Named Insured and Mailing Address

Policy Number 3535-37-17 WUC

PACIFIC MAGNETIC & PENETRANT CO., INC. 6829 FARMDALE AVE.
NORTH HOLLYWOOD, CA 91605

Effective Date NOVEMBER 1, 2005

Issued by the stock insurance company indicated below, herein called the company.

FEDERAL INSURANCE COMPANY

Producer No. 0010092

Incorporated under the laws of

INDIANA

Producer

INDUSTRIAL RISK AND INSURANCE SERVICES, INC.

1611 E 17TH STREET

SANTA ANA, CA 92705-0000

Policy Period

From: NOVEMBER 1, 2005 To: NOV

To: NOVEMBER 1, 2006

12:01 A.M. standard time at the Named Insured's mailing address shown above.

Covered Premises \$250,000 Blanket Limit Of Insurance

The Blanket Limit Of Insurance shown above applies only for the Premises Coverages shown below. Unless otherwise stated, this Blanket Limit Of Insurance applies separately at each covered premises shown in the Declarations. This Blanket Limit Of Insurance applies in excess of the applicable deductible shown in the Declarations.

At time of loss, the first Named Insured may elect to apportion this Blanket Limit Of Insurance to one or any combination of the Premises Coverages shown, but under no circumstance will the aggregate apportionment be permitted to exceed the Blanket Limit Of Insurance shown above at any one covered premises. For the purpose of the application of this \$250,000 Blanket Limit Of Insurance, all property at one premises shall constitute a single premises.

Separate specific Limits Of Insurance may be purchased for each of these Premises Coverages. If purchased, these Limits Of Insurance and any applicable deductible will be shown in the Declarations with the Premises Coverages. If no deductible is shown in the Declarations with the Premises Coverages, then the Property Deductible will apply. When a specific Limit Of Insurance is purchased for any of these Premises Coverages, such specific Limit Of Insurance will apply in addition to whatever amount the first Named Insured apportions to that coverage at time of loss as provided in the previous paragraphs.

Coverages Included In The Blanket Limit Of Insurance:

ACCOUNTS RECEIVABLE
ELECTRONIC DATA PROCESSING PROPERTY
FINE ARTS
LEASEHOLD INTEREST BONUS PAYMENT,
PREPAID RENT,
SUBLEASE PROFIT,

TENANTS' LEASE INTEREST

LEASEHOLD INTEREST - UNDAMAGED
TENANT'S IMPROVEMENTS & BETTERMENTS
NON - OWNED DETACHED TRAILERS
OUTDOOR TREES, SHRUBS, PLANTS OR LAWNS
PAIR AND SET
PERSONAL PROPERTY OF EMPLOYEES
PUBLIC SAFETY SERVICE CHARGES
RESEARCH AND DEVELOPMENT PROPERTY
VALUABLE PAPERS

Property Coverages

The Limits Of Insurance shown below:

- are provided for the Premises Coverages and Additional Coverages shown at no additional cost to you; and
- apply separately at each premises shown in the Declarations, except for the following Additional Coverages which apply anywhere within the Coverage Territory:
 - Any Other Location;
 - Deferred Payments;
 - Exhibition, Fair Or Trade Show;
 - Installation; or
 - In Transit.

The Limits Of Insurance for:

- Debris Removal; and
- Preparation Of Loss Fees,

apply separately at each premises shown in the Declarations or anywhere within the Coverage Territory.

You may purchase increased Limits Of Insurance, and we will charge you an additional premium. If you purchase increased Limits Of Insurance for any of these coverages, the Limits Of Insurance shown in the Declarations will reflect your total Limit Of Insurance, including the Limits Of Insurance shown below. Any applicable deductible will be shown in the Declarations with the coverage. If no deductible is shown in the Declarations with the coverage, then the Property Deductible will apply. Extra Expense Coverage is not subject to any deductible.

Increased Limits Of Insurance cannot be purchased for Impairment of Computer Services – Malicious Programming – Outside Attack.

Extra expense is subject to the:

- Business Income With Extra Expense contract if purchased; or
- Extra Expense contract, if the Business Income With Extra Expense contract is not purchased.



Supplementary Declarations — Property

Effective Date

NOVEMBER 1, 2005

Policy Number

3535-37-17 WUC

operty Coverages	Limit Of Ins		
ANY OTHER LOCATION			
ACCOUNTS RECEIVABLE	\$	15,000	
BUILDING COMPONENTS	\$	15,000	
ELECTRONIC DATA PROCESSING PROPERTY	\$	50,000	
FINE ARTS	\$	15,000	
PERSONAL PROPERTY	\$	15,000	
RESEARCH AND DEVELOPMENT PROPERTY	\$	15,000	
VALUABLE PAPERS	\$	15,000	
DEBRIS REMOVAL			
PREMISES SHOWN IN THE DECLARATIONS	\$	100,000	
ANY OTHER LOCATION	\$	25,000	
IN TRANSIT	\$	25,000	
DEFERRED PAYMENTS	\$	25,000	
EXHIBITION, FAIR OR TRADE SHOW			
ELECTRONIC DATA PROCESSING PROPERTY	\$	15,000	
FINE ARTS	\$	15,000	
PERSONAL PROPERTY	\$	15,000	
EXTRA EXPENSE	\$	100,000	
FUNGUS CLEAN-UP OR REMOVAL	\$	25,000	
IMPAIRMENT OF COMPUTER SERVICES - MALICIOUS PROGRA	MMING		
INSIDE ATTACK	\$	100,000	
OUTSIDE ATTACK - PER OCCURRENCE	\$	10,000	
OUTSIDE ATTACK - ANNUAL AGGREGATE	\$	50,000	
INSTALLATION			
ANY JOB SITE	\$	25,000	
IN TRANSIT	\$	25,000	



DEPARTMENT OF PUBLIC WORKS BUREAU OF SANITATION



INDUSTRIAL WASTE MANAGEMENT DIVISION 2714 MEDIA CENTER DRIVE LOS ANGELES, CA 90065 (323) 342-6200

INDUSTRIAL WASTEWATER PERMIT

INDUSTRIAL USER NO: IU006770

PERMIT NO: W-407316

EFFECTIVE DATE: 07/01/2005

AMENDED DATE: NA

EXPIRATION DATE: 06/30/2008

LEGAL BUSINESS NAME:

PACIFIC MAGNETIC & PENETRANT CO., INC.

DOING BUSINESS AS:

PACIFIC MAGNETIC & PENETRANT CO., INC.

MAILING ADDRESS:

6837 FARMDALE Avenue

NORTH HOLLYWOOD, CA 91605

LOCATION ADDRESS:

6837 FARMDALE Avenue

NORTH HOLLYWOOD, CA 91605

CATEGORY: SUBPARTS:

413

E

Electroplating EXISTING SOURCE

FLOW < 10,000

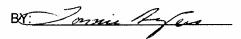
POINT OF DISCHARGE:

Public Sewer

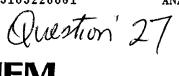
In accordance with the provisions of the Los Angeles Municipal Code (L.A.M.C.) Section 64.30, the above identified industrial user is hereby authorized to discharge industrial wastewater through the approved point of discharge identified herein in accordance with the discharge limitations, conditions, and requirements set forth in this permit and the L.A.M.C. Compliance with this permit does not relieve the industrial user of its obligation to comply with all pretreatment regulations, standards or requirements under local, State and Federal laws, including any such laws, regulations, standards or requirements that may become effective during the term of this permit.

The industrial user must comply with the provisions of L.A.M.C. Section 64.30 and all terms and conditions of this permit. Noncompliance with the terms and conditions of this permit shall constitute a violation of the L.A.M.C. Section 64.30 and may subject the industrial user to administrative actions or other legal proceedings. This permit becomes void upon any change of ownership or location whatsoever.

> Rita L. Robinson, Director Bureau of Sanitation







140 Standard Street • El Segundo, California 90245.3837 • voice \$10.322.4993 • fax 310.322.668

PalySIS

2 17 106

Waste water analysis

PACIFIC MAGNETIC & PENETRANT 6829 Farmdale Ave.

No. Hollywood, CA 91605

ATTN: Erick Anderson

DATE

January 5, 2006

LAB NO. CUST P.O. B13938 pg.2 of 2

SAMPLE (S)

VERBAL/E.J. WASTE WATER

RECEIVED

12-28-05

SAMPLE NO.

91248 -#1,#2,#3,#4,#|

E.L.A.P. CERTIFICATE NO. 1164 PRENOTIFICATION DATE :12-21-05

METHOD

PERMIT NO:

W-407316

DISCHARGE ADDRESS:

6837 Farmdale Avenue, North Hollywood, CA 91605

SAMPLE:

GRAB SAMPLE FROM SAMPLE BOX

SAMPLED:

BY JOSE BOLANOS OF ANACHEM LABORATORIES

ON 12-28-05 AT 12:10 P.M.

CON	STITUENT	CONCE	NTRATION	EPA 600	DETECTION	LIMIT
рН		7.0	units	150.1	2-13	units
Cyanid	e, Total (#1)	< 0.020	mg/L	335.2	0.02	mg/L
Cyanid	e, Amenable (#1)	< 0.020	mg/L	335.1	0.02	mg/L
Sulfid	e, Dissolved (#2)	< 0.040	mg/L	376.2	0.04	mg/L
Oil and	d Grease (#3)	42.5	mg/L	413.1	2	mg/L
Bie (2-1	Ethylhexyl) phthalate					
220 (2 .	(#4)	< 0.010	mg/L	625	0.010	mg/L
Di-n-od	ctyl phthalate (#4)	< 0.010	mg/L	625	0.010	mg/L
Hexachl	orobutadiene (#4)	< 0.010	mg/L	625	0.010	mg/L
Naphtha	lene (#4)	< 0.010	mg/L	625	0.010	mg/L
Orthdic	hlorobenzene (#4)	< 0.010	mg/L	625	0.010	mg/L





TEST REPORT

Established 19

140 Standard Street • El Segundo, California 90245.3832 • voice 310.322.4993 • fax 310.322.668

PACIFIC MAGNETIC & PENETRANT

6829 Farmdale Ave.

No. Hollywood, CA 91605

ATTN: Erick Anderson

DATE

January 5, 2006

LAB NO.

B13938 pg.1 of 2

CUST P.O. SAMPLE (\$)

VERBAL/E.J. WASTE WATER

RECEIVED

12-28-05

SAMPLE NO.

91248-4,-5

E.L.A.P. CERTIFICATE NO. 1164 PRENOTIFICATION DATE :12-21-05

PERMIT NO: # W-407316

DISCHARGE ADDRESS:

6837 Farmdale Avenue, North Hollywood, CA 91605

SAMPLE:

24 HOUR TIME COMPOSITE FROM SAMPLE BOX

SAMPLED: BY JOSE BOLANOS OF ANACHEM LABORATORIES

BETWEEN 12-27-05 AT 12:10 P.M. AND 12-28-05 AT 12:10 P.M.

CONSTITUENT	CONCEN	FTRATION	METHOD EPA	DETECT	TON LIMIT
Arsenic, Total	< 0.10	mg/L	200.7	0.10	mg/L
Cadmium, Total	< 0.010	mg/L	200.7	0.01	mg/L
Chloride	130	mg/L	300.0	10	mg/L
Chromium, Total	0.43	mg/L	200.7	0.02	mg/L
Copper, Total	0.086	mg/L	200.7	0.02	mg/L
Lead, Total	< 0.050	mg/L	200.7	0.05	mg/L
Nickel, Total	0.45	mg/L	200.7	0.02	mg/L
Silver, Total	< 0.050	mg/L	200.7	0.05	mg/L
Zinc, Total	0.20	mg/L	200.7	0.01	mg/L



Ì	UNIFORM HAZARDOUS 1. Generator's US EPA ID No. CALO O O O O O O O O O O O O O O O O O O	1	fest Documen	1 No.	2. Page 1	Informatio	Sacramento, Californi n in the shaded areas iired by Federal law.
	3. Generator's Name and Mailing Address PACIFIC MAGNETIC AND PENETRANT NORTH HOLLYWOOD, CA 91605 4. Generator's Phone ((818))765-7511		A. State Manifest Document Number 2456942				
	5. Transporter 1 Company Name 6. US EPA MILES CHEMICAL COMPANY C A D	9 8 3 6 1 3		D. Transp	Transporter's ID [Reporter's Phone	(818)50	04-3355
383			 4 5 5	N MARKETON TO THE REAL PROPERTY.	Facility's ID.	(866)9(9-2782-33
	BEATTY, NV 89003	3 3 0 0 70	1 3		y's Phone		39-3943
	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID N		No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number State 181
 }	RQ, HAZARDOUS WASTE SOLID, N.O.S (CHROMIUM), 9, NA3077, PGIII	.,	001	BA	0000	Y	EPA/EVOO7
	В	*	è				State EPA/Other
)	c.						State EPA/Other
	d.		1 1		11 1 1 1		State EPA/Other
	J. Additional Descriptions for Materials Listed Above 11A)FILTER CAKE / APP# 07-012-0810-4	3 / ADD EPA	CODI	K. Hand	ng Codes for Wast	es Listed Abo	vēļ ^ų
100	The second second second		nue Italia	c.	03/99	d.	
	15. Special Handling Instructions and Additional Information WEAR APPROPRIATE PPE / ERG 171 EMERGENCY CONTACT: CHEMTREC (8)	800)424-9300	, A E				
	16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignarked, and labeled, and are in all respects in proper condition for transport. If I am a large quantity generator, I certify that I have a program in place to practicable and that I have selected the practicable method of treatment, stora and the environment; OR, if I am a small quantity generator, I have made a gavailable to me and that I can afford.	by highway according to reduce the volume and l	applicable i	nternationa aste general	I and notional gove ted to the degree I	have determi	ations. ned to be economics threat to human hes
,	Printed/Typed Name Signatu	ure Day	19	\bigcirc $\stackrel{\checkmark}{\sim}$		Ø	410010
	17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Uped Name WIE 18. Transporter 2 Acknowledgement of Receipt of Materials	11e / /	7	7		O O	1/200
	Printed Gyped Name ADRFTN Signate	70	m			OMon	413
	18. Discrepancy Indication Space						

	1,000					odcramento, Camorma
. 445	1	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. C A 0 0 0 0 1 9 8 0	Manifest Document No.	2. Page 1	Information in the shaded areas is not required by Federal law.
,		3. Generator's Name and Mailing Address PACIFIC MAGNETIC AI 6837 FARMDALE AVE	ND PENETRANT		State Manifest Document	24569424
1-800-852-7550		6837 FARMDALE AVENORTH HOLLYWOOD, 4. Generator's Phone ((818))765-75	CA 91605	B	State Generator's ID	
÷		5. Transporter 1 Company Name	6. US EPA ID Number		State Transporter's ID [Re	served.]
100		MILES CHEMICAL COM	APANY CADS	3 0 1 3 0 8 8		(818)504-3355
		7. Transporter 2 Company Name	8. US EPA ID Numbe	1600	State Transporter's ID [Re Transporter's Phone	served.)
T NO		Designated Facility Name and Site Address	10. US EPA ID Numbe		State Facility's ID	() -
CALIFORNIA,		U.S. FILTER RECOVER 5375 SINGELES, CA 900	Y SERVICES 158 C.A.D.O.9.1	7,0,3,0,9,9,3	Facility's Phone	(900)366 7747
J.F	١.	11. US DOT Description (including Proper Shippin		12. Containe		(800)266-7747
Z	-1	a.	ng Irame, nazara Class, and ID Irumber)	No. Ty	pe Quantity	Wt/Vol I. Waste Number State 223
WITHIN	G	OIL (NON RORA HAZARDO	US WASTE LIQUID	1001 D	va on C	G FPA/RIONE
	EN	b.	*	WA POP ID		State
4-88	E			*\$		EPA/Other
0-42	À	C.	,, ₀ ,			State
1-800-424-8802:	O R	, '.				EPA/Other
	ì	d		*		State
CENTER		· · · · · · · · · · · · · · · · · · ·				EPA/Other
		J. Additional Descriptions for Materials Listed About 11A)MAG OIL APP# 346	iono no	K. F	landling Codes for Waste	is Listed Above
SPO		TIA)MAG OIL AFF# 340	1820-22	a. (1114	b.
HE NATIONAL RESPONSE			545317 + D	7474	10	d.
VIOI		15. Special Handling Instructions and Additional I	nformation			
Ž		9. ⁵⁸				
=		16. GENERATOR'S CERTIFICATION: I hereby dec	E. al. al	CB January 4 1 1		
CALL		marked, and labeled, and are in all respects	n proper condition for transport by highwa	y according to applicable interna	tional and national gover	ome and are classified, packed, rnment regulations.
SPILL,		If I am a large quantity generator, I certify the practicable and that I have selected the practi	cable method of treatment, storage, or disc	osal currently available to me w	hich minimizes the presen	nt and future threat to human health
Q.		and the environment; OR, if I am a small qua available to me and that I can afford.	ntity generator, I have made a good faith	effort to minimize my waste gene	ration and select the bes	t waste management method that is
	♦	Printed/Typed Nampauld Co	Signature () au id (Month Day Year
ASE OF EMERGENCY	RAMS	17. Transporter 1 Acknowledgement of Receipt of Printed/Typed Name	Signature Signature	4		Month Day Year
6	- de -	18. Transporter 2 Acknowledgement of Receipt of Printed/Typed Name	Materials Signature			Month Day Year
ASE	•		r, £			
9	1	19. Discrepanty Indication Space				100
	₹ 71		1.0	1	1	
	a .	20. Facility Owner or Operator Cartification of rec		manifest except as noted in Item	9. ////	The state of the s
\$	T Y	Printed/Typed Name	Signature	H	11.0	Month Day Year

								acrameme, camerna	
	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US.	0 1 9 8 0 9	Manifest Documen	1 No.	2. Page 1		in the shaded areas red by Federal law.	
	3. Generator's Name and Mailing Address PACIFIC MAGNETIC A 6837 FARMPALE AXE NORTH HOLLYWOOD	ND PENETR		A. State Manifest Document Number 24569421 B. State Generator's ID					
	4. Generator's Phone ((818)765-75	11			1	11111	111	1111	
	5. Transporter 1 Company Name		6. US EPA ID Number		C. State Tr	ansporter's ID [Res	served.]		
	MILES CHEMICAL COI	MPANY (C A D 9 8 3 6 8. US EPA ID Number	1 3 6 8 8		AND RESIDENCE AND PARTY OF THE		04-3355	
	7. Transporter 2 Company Name	31	8. US EPA ID Number			ansporter's ID [Res	erved.]		
-	9. Designated Facility Name and Site Address	1	O US ERA ID N		A SHOULD BE	rter's Phone	() -		
	PACIFIC RESOURCE F 3150 E PICO BLVD LOS ANGELES, CA 90		0. US EPA ID Number		G. State f	ADOO	PESI	2/10/51	
ļ	LOS ANGELES, CA SU	J23 (C	$C_{ A }D_{ 0 }0_{ 8 }2$		in a		COST TO THE REPORT OF	9-7145	
1	11. US DOT Description (including Proper Shippi	ng Name, Hazard Clas	s, and ID Number)	12. Cor No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number	
	RQ. WASTE ACETONE 3,UN1090,PGII (D001	; ;	ē.	0.07		- 11		State 212	
-	b	r		OBR	DM	201/612	0	EPA/ 200 01	
	*		* * * * * * * * * * * * * * * * * * *						
-			į.	<u> </u>				EPA/Other	
	c.							State	
L			io u		.			EPA/Other	
	d.	×				i		State	
		1				15. S S		EPA/Other	
SACRES AND	J. Additional Descriptions for Materials Listed Ab. 11A)WASTE ACETONE	APP# 2409	0133 ADD WA	STE CODE	F003	Codes for Waster	b.		
Distriction of the					c.	~ /	d.		
ľ	15. Special Handling Instructions and Additional			F.C.					
	WEAR APPROPRAITE EMERGENCY CONTAC	PPE / ERG# T# CHEMTI	127 REC (800)424-	-9300			e ^e n	•5 • •	
F	16. GENERATOR'S CERTIFICATION: I hereby dec marked, and labeled, and are in all respects	lare that the contents of in proper condition for	this consignment are fully of	and accurately describ	ed abave by	proper shipping no	ime and are c	lassified, packed,	
	If I am a large quantity generator, I certify th			مان کو بختمانی کا میان	, 	٠			
	practicable and that I have selected the pract and the environment; OR, if I am a small qua available to me and that I can afford.	icable method of treatn	ent, storage, or disposal c	urrently available to	me which mi	nimizes the present	t and future t	breat to human health	
	Printed/Typed Name DAVID COLIN)	Signature	wed (Month	Y/ 10106	
-	17. Transporter 1 Acknowledgement of Receipt of Printed/Typed Name ATT U 1	Materials E	Signature				O Youth	P Day Year 6	
	18. Transporter 2 Acknowledgement of Receipt of Printed/Typed Name	Materials	Signature				Month	Day Year	
-	19. Discrepancy Indication Space		- 1	2		<u>, , , , , , , , , , , , , , , , , , , </u>	<u> </u>		
				7	. •		g Comment	***/	
Η.			37						
	20. Facility Owner or Operator Cepffication of rec	eipt of hazardous mate		ent except as noted in	Item 19.		L 11	. Day	
	20. Facility Owner or Operator Conflication of rec Printed/Typed Name WICL W		rials covered by this manife Signature	ext except as noted in	Item 19.		Month	1 Day Your Your	

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802: WITHIN CALIFORNIA, CALL 1-800-852-7550